

CLAIMS

What is claimed is:

1. A database system that manages, totals and processes data on a predetermined condition, the system comprising:

5 a data storage unit for storing data;

a data base management unit for managing input/output of said data to/from said data storage unit;

a data processor for controlling said data base management unit to obtain desired data from said data storage unit and process said data; and

10 a stored grouping function enabled to define a field value used to group said data,

wherein the data processor executes:

15 program code configured to enter an execution command that specifies said stored grouping function used in a data processing; and

20 program code configured to instruct said data base management unit to total said data according to a field value defined by said stored grouping function specified in said execution command.

2. The data base system according to claim 1, wherein said system further comprises a stored totaling function which

sets both condition and method for totaling data, and
said data processor executes;
program code configured to enter an execution command
that is a combination of said stored functions for
5 grouping and totaling data; and
program code configured to instruct said data base
management unit to total said data on said condition and
by said method for totaling data, set by said stored
totaling function according to a field value defined by
said stored grouping function.

10 3. The data base system according to claim 1, wherein said
data processor further comprises an asynchronous server,
and

15 said asynchronous server creates an SQL statement that
includes procedures for using said stored grouping and
totaling functions so as to instruct said data base
management unit to execute said SQL statement.

20 4. The data base system according to claim 1, wherein said
system further comprises an input device for entering
information on a definition of said field value defined
by said stored grouping function, and

said data processor creates an SQL statement used to

create said stored grouping function according to said information entered via said input device and instruct said data base management unit to execute said created SQL statement.

5. A financial data processing system for managing financial data and analyzing said financial data on a predetermined condition, the system comprising:

a data storage unit for storing said financial data;

5 a data base management unit for managing input/output of said financial data to/from said data storage unit;

a data processor for controlling said data base management unit to obtain predetermined financial data from said data storage unit and process said data;

10 a plurality of stored grouping functions each enabled to define a field value used to group financial data respectively; and

15 a plurality of stored totaling functions, in each of which both condition and method for totaling financial data are set,

wherein said data processor executes:

program code configured to specify a stored grouping function selected from among said plurality of stored grouping functions to be used in a data processing and enter an execution command that specifies a stored totaling function selected from among said plurality of stored totaling functions to be used in said data

processing; and

program code configured to instruct said data base management unit to total up data on said condition and by said method set by said stored totaling function according to said field value defined by said stored grouping function.

5. The financial data processing system according to claim

5, further comprising:

a first input device for entering information on the definition of said field value set by said stored grouping function; and

a second input device for entering information on said condition and said method set in said stored totaling function, and

15 said data processor executes:

program code configured to create an SQL statement used to create said stored grouping function according to said information entered via said first input device;

20 program code configured to create an SQL statement used to create said stored totaling function according to said information entered via said second input device; and

program code configured to instruct said data base management unit to execute said created SQL statement.

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7. A financial data processing system that manages financial data to total said financial data on a predetermined condition and calculate a cash flow according to said totaled financial data, the system comprising:

5 a data storage unit for storing said financial data; a data base management unit for managing input/output of said financial data to/from said data storage unit; a data processor for controlling said data base management unit to obtain desired financial data from said data storage unit and calculate said cash flow; and a stored function for defining a field value used to group said financial data,

10 wherein said data processor corrects said calculated cash flow according to the properties of said financial data in each group defined by said field value defined by said stored function.

15 8. The financial data processing system according to claim 7, further comprising:

20 a property information input device for entering property information of said financial data according to each field value set in said stored function, and said data processor executes:

program code configured to receive financial data property information used to correct said cash flow via said property information input device;

5 program code configured to receive an execution command that specifies said stored function corresponding to said financial data property information used to correct said cash flow; and

10 program code configured to correct said calculated cash flow according to said property information received via said property information input device and corresponding to said stored function specified in said execution command.

9. The financial data processing system according to claim 8, wherein said property information input device decides 15 a predetermined setting period and enters said property information in each set period.

10. A data processing apparatus, comprising:

an input device for entering definition information that includes an original field expression used to group data in an analysis mother data base, definition of a new field value used to group said data newly, and a range in which said new field value is effective; and

5 a data processor connected to a data base management unit of said analysis mother data base and enabled to create an SQL statement used to instruct said data base management unit to create a stored function for setting a field value corresponding to said definition information in case said data base management unit extracts data according to said definition information received via said input device.

PROPRIETARY INFORMATION

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11. A data processing apparatus, the apparatus comprising:

an input device for entering definition information that includes a statistical expression used to obtain statistical information from a predetermined data group
5 and an object field expression used to identify a group of data to be extracted; and

a data processor connected to a data base management unit of said analysis mother data base and enabled to create an SQL statement used to instruct said data base management unit to create a stored function for limiting data to be extracted when said data base management unit extracts data according to said definition information received via said input device.

12. A data processing apparatus, the apparatus comprising:

a data processor for calculating a cash flow by obtaining predetermined financial data from an analysis mother data base that stores said financial data; and

5 an input device for entering property information that includes a group key used to identify said financial data to be processed, a predetermined setting period, and a property of said financial data set for said group key and said setting period respectively,

10 wherein said data processor corrects said calculated cash flow according to said property information received via said input device.

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13. A data extracting method comprising the steps of:

entering an execution command that specifies a first stored function enabled to define a field value used to group data and a second stored function enabled to set both condition and method for totaling said data;

5 creating an SQL statement that describes a processing for totaling data on said condition and by said method set in said second stored function according to said field value defined by said first stored function; and

10 instructing a data base management unit provided with said first and second stored functions to execute said created SQL statement.

14. A cash flow calculating method for managing financial data so as to total said financial data and calculate a cash flow according to said totaled financial data, comprising a steps of:

5 entering a cash flow calculation command that specifies a stored function enabled to define a field value used to group data and property information of said financial data set for each field value in said stored function; calculating a cash flow according to said command; and

10 correcting said calculated cash flow according to said property information corresponding to said stored function specified in said command.

15. A computer program product comprising a computer useable medium having computer readable code embodied therein for extracting data, the program product comprising:

5 program code configured to enter an execution command that specifies a first stored function enabled to define a field value used to classify data and a second stored function enabled to set both condition and method for totaling said data;

10 program code configured to create an SQL statement that describes a processing for totaling data on said condition and by said method set in said second stored function according to said field value defined by said first stored function; and

15 program code configured to instruct a data base management unit to execute said created SQL statement, said data base management unit being provided with said first and second stored functions.

16. A computer program product comprising a computer useable
medium have computer readable code embodied therein for
calculating a cash flow, the program product comprising:
5 program code configured to enter a cash flow calculation
command that specifies a stored function enabled to
define a field value used to classify data and property
information of financial data set for each field value in
said stored function;
program code configured to calculate a cash flow
according to said command; and
10 program code configured to correct said calculated cash
flow according to said property information corresponding
to said stored function specified in said command.